1 1. (Previously Amended) A computer-implemented method for generating a table of contents for a document using information in said document, comprising: 2 3 building a model of said document including an initial semantic structure; detecting hierarchical changes in said semantic structure spanning different scales; 4 and 5 ordering said changes into entries in said table of contents based on scale span. 6 1 2-9. (Canceled) 1 10. (Previously Amended) The method of claim 1 wherein said building further comprises: 2 defining a vector of terms occurring in said document; and mapping said document into a vector space by projecting scaled term occurrence 3 histogram data onto said vector of terms and summarizing said terms using 5 singular-value decomposition.

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11-14. (Canceled)

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1	15. (Previously Amended) The method of claim 1 wherein said detecting further comprises:
2	applying successively smaller scale filter windows to said model according to said
3	initial semantic structure to construct a map of said changes versus scale;
4	identifying local peaks in said contour map, said peaks being points of maximum
5	vector derivative magnitude;
6	tracing said local peaks back to a semantic structure change origin point; and
7	measuring a span of scales over which each said change exists.
1	16. (Canceled)
1	17. (Previously Amended) A system for generating a table of contents for a document using
2	information in said document, comprising:
3	means for building a model of said document including an initial semantic structure;
4	means for detecting hierarchical changes in said semantic structure spanning
5	different scales; and
6	means for ordering said changes into entries in said table of contents based on scale
7	span.

18. (Currently Amended) A computer program product comprising a machine-readable
medium tangibly embodying having computer-executable program instructions thereon for
generating a table of contents for a document using information in said document, including
a first code means for building a model of said document including an initial
semantic structure;
a second code means for detecting hierarchical changes in said semantic structure
spanning different scales; and
a third code means for ordering said changes into entries in said table of contents
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